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Lo don Map Pinned Approval Letter	_
Card Indexed Disapproval Letter	
IWR for State or Fee Land	
COMPLETION DATA:	
Date Well Completed Location Inspected	
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Form OGCC-1

### STATE OF UTAH OIL AND GAL CONSERVATION CONTELLISION NOTICE OF INTENTION TO DRILL

BEST COPY **AVAILABLE** 

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NSTRUCTIONS:					علايس و	han the mane	Das Conserva	tion

1. Complete this form in Duplicate and mail, both copies to the Cil and Gas Co

Commission, Rm 105, Capitol Blog., Salt Lake City 14, Utah.

2. A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells within an area of sufficient size so that the commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

3. Any information required by this form that cannot be furnished at the time said form is

submitted must be forwarded to the commission as soon as available.

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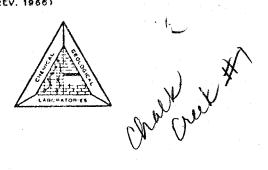
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#### WATER ANALYSIS EXCHANGE REPORT

MEMBER OPERATOR WELL NO. FIELD COUNTY STATE REMARKS & C	Coalville Gas Sto Summit	ply Company rage Area	LOCATION FORMATION INTERVAL SAMPLE FROM DATE	Surface	)-2N-5E	10
Cations  Sodium Potassium Lithium Calcium Magnesium	mg/1 74 8 117 27 Trace	meq/1 3.24 0.20 5.84 2.22	Anions  Sulfate Chloride Carbonate Bicarbonate Hydroxide Hydrogen sulfide		mg/1 28 68 549 absent	meq/1 0.58 1.92 9.00
Total dissolved so	otal Cations	592 477 7.4	Specific resistance Observed Calculated	@ 68° F.:		ohm-meters

# WATER ANALYSIS PATTERNS MEQ per unit

STANDARD LOGARITHMIC Cı Na C1 10 HCO<sub>3</sub> HCO<sub>3</sub> Ca SO4 Mg SO<sub>4</sub> CO<sub>3</sub> COs Fe l

#### February 15, 1960

Mountain Fuel Supply Company P. O. Box 1129 Rock Springs, Wyoming

Attention: J. P. Simon,

Vice President

#### Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Federal 1, which is to be tocated 1675 feet from the south line and 1800 feet from the east line of Section 6, Township 2 North, Range 6 East, SLBM, Summit County, Utah.

The proposed location of this well does not comply with Rule C-3(b) of our rules and regulations; nor has information been furnished for an unorthodox location as required by Rule C-3(c).

Before approval can be given for drilling this well, it will be necessary for you to file a new notice of intention to drill in compliance with Rule C-3(b), or if an unorthodox location is necessary, a request for such spacing must be made as required by Rule C-3(c).

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE SECRETARY

#### CIF : co

cc: D. F. Russell, Dist. Eng. U. S. Geological Survey Salt Lake City, Utah

# MOUNTAIN FUEL SUPPLY GOMPANY

P. O. BOX 1129

ROCK SPRINGS, WYOMING

February 16, 1960

8. W. CROFT

Mr. Cleon B. Feight, Executive Secretary Oil & Gas Conservation Commission The State of Utah 310 Newhouse Building 10 Exchange Place Salt Lake City 11, Utah

Dear Mr. Feight:

Reference is made to your telephone conversation of this date with our Mr. E. J. Kilburn regarding the proposed location for a wildcat well in sec. 6, T. 2N., R. 6E., Summit County, Utah. Reference is further made to your letter of February 15, 1960, calling our attention to the unorthodox location of the above proposed well.

The reason for the location as picked is geographical, in that the well is located on the side of a hill in a canyon and in order to comply with spacing regulations of the Utah Oil and Gas Conservation Commission it would throw an undue hardship on us to establish such a location.

In further compliance with your regulations, Mountain Fuel Supply Company owns Oil and Gas Lease SL-070555 from the Federal Government which embraces all of section 6. The intended location is well in excess of 660 feet from the nearest lease other than that held by Mountain Fuel Supply Company.

It would be sincerely appreciated if you would waive the regulations and allow us to drill the well at the location as provided on our Notice of Intention to Drill.

Sincerely,

B.W. Ceoft

B. W. Croft

BWC:kj

cc: J. T. Simon

E. J. Kilburn

(SUBMIT IN DUPLICATE)

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# STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

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State
Public DomainXX
Indian

SUNDRY	NOTICES AN	ND REP	ORTS ON	WELLS
Notice of Intention to Drill	)	XXX Subseque	ent Report of Wat	er Shut-off
Notice of Intention to Change	• •			ring Casing
Notice of Intention to Redrill of	,	Subseque		rilling or Repair
Notice of Intention to Pull or	Alter Casing	Supplem	entary Well Histo	ry
Notice of Intention to Abando	n Well			
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halk Creek Government We				, 1960
Well Nois loc				
SE sec. 6 (4 Sec. and Sec. No.)	2N		6 <b>E</b>	Salt Lake
Chalk Creek area	Summit		***************************************	Utah
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Mountain Fuel Supply Coand request that you was exception stated under	ive the provisions	of Rule C-	in which this w -3(b) in confo	rell will be drilled rmity with the
I understand that this plan of wo Company Mountain Fuel : Address P. O. Box 1129 Rock Springs,	Supply Company	Ву		ft
TOOK DELITES	J VALLACO	110le		
INCODICOTONO, A plat or mor	a must be attached to this	form changing	the location of all le	ages property lines drilling and

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

### February 17, 1960

Mountain Fuel Supply Company P. O. Box 1129 Rock Springs, Wyoming

Attention: Mr. B. W. Groft, Manager Producing Division

#### Gentlemen:

With reference to our telephone conversation and your letter of February, 16, please be advised that approval to drill Well No. Chalk Creek Gov't 1, 1675 feet from the south line and 1800 feet from the east line of Section 6, Township 2 North, Range 6 East, SLEM, Summit County, Utah, is hereby granted under Rule C-3(c) of our rules and regulations.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT EXECUTIVE SECRETARY

#### CBF:co

CG: D. F. Russell, Dist. Eng. U. S. Geological Survey Federal Building Salt Lake City, Utah

# MOUNTAIN FUEL SUPPLY GOMPANY

P. O. BOX 1129

ROCK SPRINGS, WYOMING February 18, 1960

J. T. SIMON VICE PRESIDENT

Mr. Cleon B. Feight, Executive Secretary Oil and Gas Conservation Commission The State of Utah 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah

Dear Mr. Feight:

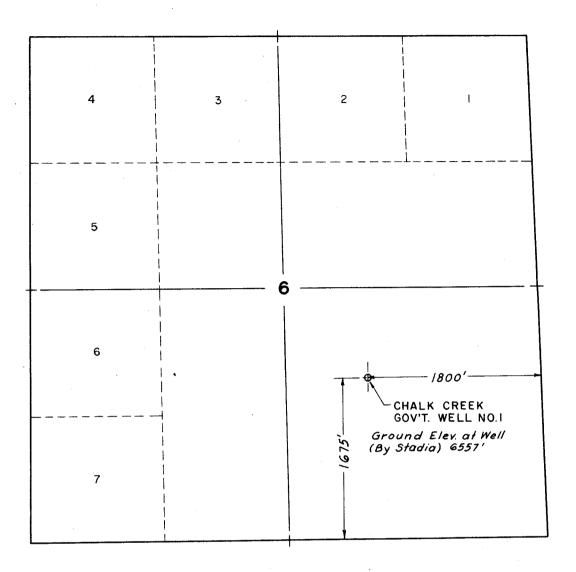
Enclosed are two copies of Mountain Fuel Supply Company's surveyor's plat for the location of Chalk Creek Government Well No. 1 in the  $NW_{\frac{1}{4}}$   $SE_{\frac{1}{4}}$  of section 6, T. 2 N., R. 6 E., Summit County, Utah.

Yours very truly,

Sim May Curana Steve Majhanovich

Secretary to J. T. Simon

smEnc



State of Wyoming Ss.

I, R. C. Day, of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by J.E. Kessner on February 12, 1960; and that it correctly represents the location of the well for Mountain Fuel Supply Company in Section 6, T. 2 N., R. 6E., Summit County, Utah

MAP

# CHALK CREEK GOVERNMENT WELL Nº I

( O. & G. LEASE S.L. 070555)

NW SE SEC. 6, T. 2 N., R. 6 E. SUMMIT COUNTY, UTAH

MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING

SCALE |" = 1000"

Registration № 124

du)p

Form 9-331 a (Feb. 1951)

# BEST COPY AVAILABLE

(SU. PLICATE)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office 070555

Unit 1888

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

NOTICE OF INTENTION TO DRILL		SUBSEQUI	ENT REPORT OF WATER SH	UT-0FF	
NOTICE OF INTENTION TO CHANGE PLA		1 1)	NT REPORT OF SHOOTING	OR ACIDIZING	
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# INFORMATION COPIES FOR OFFICE CBEST COPY & GAS CONSEPTATION COMMISSION

**AVAILABLE** 

Budget Bureau No. 42-R358.4. Approval expires 12-31-60.

Form 9-331 a. (Feb. 1951)

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#### (SUBMIT IN TRIPLICATE)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Land Office	SATE	LAKE	-
Lease No	0705	55	
Unit Lo	986		

SU	JNDRY NO	TICES A	ND REPO	ORTS OF	WELLS	
NOTICE OF INTENTIO	ON TO DRILL		SUBSEQUENT	REPORT OF WATER	SHUT-OFF	
NOTICE OF INTENTIO	N TO CHANGE PLANS		SUBSEQUENT	REPORT OF SHOOT	ING OR ACIDIZING	
NOTICE OF INTENTIO	ON TO TEST WATER SHUT	г-off	SUBSEQUENT	REPORT OF ALTER	ING CASING	
NOTICE OF INTENTIO	ON TO RE-DRILL OR REP	AIR WELL	SUBSEQUENT	REPORT OF RE-DR	LLING OR REPAIR	
NOTICE OF INTENTIO	ON TO SHOOT OR ACIDIZ	Œ	SUBSEQUENT	REPORT OF ABAND	ONMENT	
NOTICE OF INTENTIO	ON TO PULL OR ALTER C	ASING	SUPPLEMENT	ARY WELL HISTORY		XX.
NOTICE OF INTENTIO	ON TO ABANDON WELL					
	(INDICATE ABOV	/E BY CHECK MARK	NATURE OF REPORT	r, NOTICE, OR OTHE	R DATA)	
Chalk Cree	k Gov't. Well	No. 1		Merch 29		, 19 <u>&amp;0</u>
Well No. 1	is located	675 ft. from	$\begin{cases} \mathbf{N} \\ \mathbf{S} \end{cases}$ line and			sec6
5K sec. 6		<b>25</b>	Range)	S. L. M (Meridian)	<u> </u>	
(14 Sec. and Se		(Twp.) (I	tange)	(Meridian)	Ilhah	
(Field)			Subdivision)		(State or Territory)	
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Recovered 11	2'-1295', tool 15' muldy fres pressure bomb	h water. B	ours, shut o pressure	in 30 min s were obta	utes, no blo Mined due to	ow. Faulty
immediately 355' maddy 1 525 pei, FRH	8'-1409', tool with heavy spi resh water. I P 600 psi. this plan of work must	ray of fresh BMSIP 540 p (Over	vater, no ei, IMEP	genge obt 15 psi, BE	minable. Re P's 241-26	ecovered ) psi, FBMS
Company	otain Fuel Su	ply Company	<u> </u>	~~~~~~~~~~~ <del>~~</del>		
AddressP.	O. Box 1129					
	k Springs, Sp	mio	I	By A	nion	
	•			•	President	

OF THE WAR CONTROL OF SOME MANOR OF THE CONTROL OF

DET #3: 1361'-1409', tool open 63 minutes, shut in 1 hour. Tool dead after 9 minutes. Becovered 295' slightly muddy fresh water. IBESIP 530 psi, IBBP 6 10 psi, BHFP's 265-405 psi, FBBSIP 530 psi, FBBSIP 510 psi.

DET #4: Straddle packer test from 1300' to 1334', total depth 1409'. Tool open 1 hour, shut in 1 hour. Gas to surface immediately, followed by heavy spray of fresh muddy water which continued throughout test. Recovered 295' slightly maddy fresh water. IRESIP 530 psi, IREP 610 psi, REFP's 265-405 psi, FRESIP 530 psi, FRESIP 610 psi, FRESIP 610 psi.

DET #5: 1411'-1452', tool open 2 hours, shut in 1 hour. Fair blow during initial opening, increasing to good blow after 30 minutes, dying slowly to end of test, no gas to surface. Recovered 1300' making fresh water. IEEEIP 554 psi, IEEE 665 psi, BEFF's 160-554 psi, FEEEIP 554 psi, FEEE 665 psi.

DSF #6: 1455'-1467', tool open 2 hours, shut in 1 hour. Pair blow during 20 minutes, dying, dead in 70 minutes, no gas to surface. Recovered 1350' muldy fresh water. IBMSIP 555 put, IBMS 660 pat, DHFP's 185-555 pat, FBMSIP 570 pat, FBMS 660 pat.

ہوئے کے بات کا انتہا ہے۔ ان کا انتہا ہوئے کہ انتہا ہوئے کہ انتہا ہے۔ انتہا ہوئے کہ انتہا ہوئے کہ انتہا ہے۔ انت انتہا کہ انتہا کہ انتہا ہے کہ انتہا کہ انتہا کہ انتہا ہوئے کہ انتہا ہوئے کہ انتہا ہے۔ انتہا کہ انتہا کہ انتہا

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# COPIES FOR UTAH OIL & GAS C BEST COPY COMMISSION

Budget Bureau No. 42-R358. Approval expires 12-31-60.

Form 9-881a (Feb. 1951) 0

(SUBMIT IN TRIPLICATE)

# **UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY**

Land Office Selt Lake Lease No. 070555 Lease

NOTICE OF INTENTION TO DRILL	
	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	·
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	1000
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
(INDICATE ABOVE BY CHECK MAI	RK NATURE OF REPORT, NOTICE, OR OTHER DATA)
Chalk Creek Gov't. Well No. 1	, 19.60
(X Sec. and Sec. No.)  Calculate (Field)  Twp.)  County  The elevation of the derrick floor above sea l	y or Subdivision) (State or Territory)
	AILS OF WORK
	sizes, weights, and lengths of proposed casings; indicate mudding jobs, cemen ll other important proposed work)
he well is presently coring at a d	enth of 1872 feet and cortax has been
entinuous since the last depth repose well was coring at a depth of last during test. Recovered l' mud subject of pai, FRHP 760 pai.  The 1762'-1615', Kelvin formatical to fair blow during test, no depth of last depth de	ported to you on March 29 at which time 1510 feet. tion, tool open 1 hour, shut in 1 hour, no i. IBBSIP 0 psi, IBBP 780 psi, BEFP's 0 psi tion, tool open 70 minutes, shut in 1 hour, gas up. Recovered 1105' of maddy fresh water
continuous since the last depth replacement was coring at a depth of last decovered l' sud ship of pai, PHP 760 pai.  ST 18: 1762'-1815', Kelvin formate tak to fair blow during test, no ship of pai, IMP 776 pai, BHT?  I understand that this plan of work must receive approval is company Mountain Fuel Supply Company	ported to you on March 29 at which time 1510 feet.  tion, tool open 1 hour, shut in 1 hour, no i. IRESIP 0 psi, IHEP 780 psi, RHFP's 0 psi tion, tool open 70 minutes, shut in 1 hour, gas up. Recovered 1105' of maddy fresh water's 60-439 psi, FRESIP 690 psi, FRESIP 778 psi. in writing by the Geological Survey before operations may be commenced.
ontinuous since the last depth repose well was coring at a depth of last	ported to you on March 29 at which time 1510 feet.  tion, tool open 1 hour, shut in 1 hour, no i. IBBSIP 0 psi, IBBP 780 psi, BEFP's 0 psi tion, tool open 70 minutes, shut in 1 hour, gas up. Recovered 1105' of maddy fresh water's 60-439 psi, FBHSIP 690 psi, FBHSIP 778 psi.  in writing by the Geological Survey before operations may be commenced.

Title Vice President

# MOUNTAIN FUEL SUPPLY GOMPANY

P. O. BOX 1129

ROCK SPRINGS, WYOMING EMpire 2-5611

L. W. FOLSOM

April 14, 1960

Mr. Cleon B. Feight Oil and Gas Conservation Commission Room 310, Newhouse Building Salt Lake City, Utah

Dear Mr. Feight:

I believe that it is your organization's policy not to release any information dischosed from summary reports submitted to you on various drilling wells in your area of jurisdiction. It is particularly important to us that no information be released on our Chalk Creek Government Well No. 1 in Summit County, Utah, as we are drilling this well as a tight hole. Your fullest cooperation would be sincerely appreciated in this regard.

Yours very truly,

S. J. Falson

LWF: lp

# BEST COPY

**AVAILABLE** 

Budget Bureau No. 42-R358.4. Approval expires 12-31-60.

Lease

Lease No. 070555

# Form 9-831 a (Feb. 1951)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(SUBMIT IN TRIPLICATE)

	SICAL SORVET
SUNDRY NOTICES A	AND REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	
NOTICE OF INTENTION TO PULL OR ALTER CASING	1 1
NOTICE OF INTENTION TO ABANDON WELL	
(INDICATE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTICE, OR OTHER DATA)
Chalk Creek Government Well No. 1	April 27 , 19.60
Well No. 1 is located 1875 ft. from	$\left\{\begin{array}{c} N \\ S \end{array}\right\}$ line and $\left\{\begin{array}{c} E \\ W \end{array}\right\}$ line of sec. 6
58 N 58 Sec. 6 (1/4 Sec. and Sec. No.) (Twp.)	(Range) (Meridian)
Chalk Creek area Summit (Field) (County o	or Subdivision) (State or Territory)
The elevation of the derrick floor above sea lev	vel is 6563.6 ft. LS OF WORK
	es, weights, and lengths of proposed casings; indicate mudding jobs, cement- ther important proposed work)
DST \$9: 1617'-1694', tool open 1 hou dead in 20 minutes. Recovered 1560' 770-770 psi, EMBIP's 770-760 psi,FMB DST \$10: 2053'-2120', tool open 1 h was open. Recovered 15' mad. If 96 FMMP 965 psi. Kelvin formation. Coring in the subject well stopped a	r, shut in 1 hour, opened with good blow, maldy fresh water. IN 660 psi, RHPP's
Company Mountain Fuel Supply Company	writing by the Geological Survey before operations may be commenced.
Address P. O. Box 1129	Of P. Lysun.
Bock Springs, Vyoning	By J. T. Stiron
· · · · · · · · · · · · · · · · · · ·	Title Vice President

GPO 918507

# Form 9-331a (Feb. 1951) 0

### **BEST COPY AVAILABLE**

(SUBMIT IN

# **UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY**

Budget Bureau	No.	42-R358.
Approval expire	× 12-	-31-60.

Land Office Calt Lake

Lease No. 070555 Unit Lence

	SUNDRY NOTICES A	AND REPORTS ON WELL:	5
NOTICE OF INT	FENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INT	FENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	i
NOTICE OF INT	TENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INT	IENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INT	TENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INT	TENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INT	TENTION TO ABANDON WELL	-	
	(INDICATE ABOVE BY CHECK MAR	RK NATURE OF REPORT, NOTICE, OR OTHER DATA)	
Chalk Cre	ek Government Well No. 1		, 19
	is located 1075 ft. from	m. $\{S\}$ line and 100 ft. from $\{E\}$ line of $\{Range\}$ (Meridian)	of sec
		was a	
	Field) (County	y or Subdivision) (State or Territory	r)
The elevatio	on of the derrick floor above sea le	evel i <b>5563.63</b> ft.	
	DETA	AILS OF WORK	
State names of a	and expected depths to objective sands; show sing points, and all	izes, weights, and lengths of proposed casings; indicate mu l other important proposed work)	ıdding jobs, cement-
Total dep	th of 2349' was reached on	the subject well and the well was of 7" OD casing was run as follows:	es plugged lows:
		Net	
	" 20/ J-55 Sred the FISC c		
	" formation packer shoe ca	SING SALAST	<b>3.</b> 9
I HOMEO /	" formation packer shoe		
		A   19	
The above	casing was landed at a d	lepth of 1783.12' KDM, using 300 a sturns were obtained while mixing	SECKE UI
<i>X-X</i> F02	RIX A CERENT. UXX MARA FE	Varie were collected while mixing	and arolitor
		sted top of cement behind the 7"	
		g to 1000 pei for 15 minutes; pr	seeme cest
deld seti	sisctorily.	(Over)	
			L
I understand	that this plan of work must receive approval is	n writing by the Geological Survey before operations may	be commenced.
Company	Mountain Fuel Supply Compe	<u> </u>	
Address	P. O. Box 1129	$\mathcal{M}$	1
	Rock Springs, Wyoming	By Armon	<u> </u>
	and the second s	Title Vice President	

Using an 11" underreamer, reamed out the 9" hole below the 7" OD casing to a depth of 1831'. Released rig on May 3, 1960, and moved in Company owned pulling machine. Rigged up pulling machine over well to clean out cavings in underreased portion of hole below 7" OD casing.

The state of the s

and were taken a state of the contract of the

ay. I waalay maalaan arabbo ko ka maso sor skiisid koni kun ka ka

V tog 0 8 6 C. Com.

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Form 9-331 a. (Feb. 1951)

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#### (SUBMIT IN TRIPLICATE)

# UNITED STATES **DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY**

Land Off	ice Salt Lake
Lease No	<b>070</b> 555
Unit	L.

SUNDRY	NOTICES	AND REP	ORIS ON WEI	-TP2
NOTICE OF INTENTION TO DRILL		SUBSEQUENT	REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE P	_ANS	SUBSEQUENT	REPORT OF SHOOTING OR ACID	IZING
NOTICE OF INTENTION TO TEST WATE	R SHUT-OFF	SUBSEQUENT	REPORT OF ALTERING CASING.	
NOTICE OF INTENTION TO RE-DRILL	OR REPAIR WELL	SUBSEQUENT	REPORT OF RE-DRILLING OR RE	PAIR.
NOTICE OF INTENTION TO SHOOT OR	ACIDIZE	SUBSEQUENT	REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR A	LTER CASING	SUPPLEMENT	ARY WELL HISTORY	<b>XX</b>
NOTICE OF INTENTION TO ABANDON	WELL			
(INDICAT	TE ABOVE BY CHECK M	IARK NATURE OF REPOR	T, NOTICE, OR OTHER DATA)	1 th
Chalk Creek Government	: 10 II 10 . I	and the second second		, 19.60
Well No. 1 is locat	ed 1675 ft. fr		1 1800 ft. from $\begin{bmatrix} \mathbf{E} \\ \mathbf{W} \end{bmatrix}$	ine of sec.
(½ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Chalk Creek area	Summit:			
(Field)	(Cou	nty or Subdivision)	(State or Ter	rritory)
After remains out to involve rotary ris ead moved familias or indicated no presence Cleaned out to total failiburton, laid a F	in Company or at well with of the common lepth of 294	send pulling send pump to mt plug which	unit. Rigged up p clear out cavings was laid from 211 well with tubing	ulling unit Pailing 8' to 1918'.
Thecked water level in started swabbing. Mad 152.6 barrels of water 2 tubing at 1666 2 tubing at 1666 2 tubing at 1631 I understand that this plan of work	vell et 103 e 25 runs in Treated v ', pumped in ', pumped in ', pumped in	* MBM. Sam ( 4 hours 39   ell with 156   9 bbls. scid additional   6 bbls. scid	cubing down to \$15' dinutes, recovering hydrochloric acid i. 9 bbls acid i.	s total of sa follows:
Company Mountain Fuel			Mogical Survey before operations	may be commenced.
Dilipally				
Address P. O. Box 1129			$\mathcal{O}_{\mathcal{M}}$ .	
Rock Springs,	youdna	<u>1</u>	By Hims	<u> </u>
		T	itleVice Presiden	it.

Finished displacing sold into well and pulled tubing. Using weight section on wire line, checked plugged back depth at 1870'. Checked fluid level at 119' NDM.

a Gualde de la Sala. Sala de la 
Seren tubing back into well for swabbing test after acidizing, swabbing from a depth of 1002' and 1613'. Made a total of 25 runs in 3 hours 20 minutes. Recovered a total of 159.3 barrels of mater. At the end of the last run, checked fluid level at 165', 93 minutes after the last run with swab, checked fluid level at 126' KBH. Polled out of hole with 2-7/8" tubing.

Rigged up to run swabbing test on casing. Hade a total of 33 runs with casing swab in 8 hours 3 minutes, recovering a total of 1148 barrels of water. Fluid level prior to swabbing the casing was at 119' KPK. Fluid level at the end of the swabbing test was 136.5' KPM.

One hour and 27 minutes after last swabbing test was run, checked fluid level in well at 127.5' KBM.

After 72 hours, checked fluid level in well at 112' KBM. Set Nowco hookwall pecker in 7" casing at 1759.55' KBM and pressure tested casing to 910 psi for one hour; pressure test held satisfactorily.

Fulled tubing and bookwall packer from well, laying down tubing. Installed a 7" x 2" cementing swage on top of the 7" OD casing and installed a bull-plugged 2" Crane valve on top of the cementing swage. Released and moved off Wichtex pulling unit.

This well is shut in, pending its tentative use as a gas injection well for gas storage purposes.

Field Chalk Creek	State Utah County Summit Sec. 6	т. 2	N. R.6 E.
Company Mountain F	uel Supply Farm Chalk Creek Government Well N		
	6562.7°, Gr Location 1800° FEL, 1675° FSL Elev. 6570° RB	0	
	Drilling Commenced March 2/1960Completed April	22/1960	)
	Rig Released May 3/1960 Total Depth 2349		
6 -	Casing Record 10-3/4-inch at 155.38 feet w/125 sacks cemer 7-inch at 1783.12 feet w/300 sacks cement	nt	
Chalk Creek Gov't #1	Tubing Record None		
	PerforationsNone		
I. P. GasNo	Production Oil		
Sands			
Shut-in Surface Pressur	es		
Remarks Completed	as gas storage injection well		
***			- <u></u>
			====:
FORMA	TION RECORD FORMATION RECO	ORD	
		FROM	То
KELVIN		SURFA	ACE
No Samples.		0	170
	sandy, firm; sandstone, fine grained, tan, hard, with blac		170
g <b>rains.</b>		170	210
	loose, large quartz grains, white. sandy, firm; sandstone as above.	210 240	240 260
Shale as above; sand	Istone, loose, coarse grained, white, much cement.	260	328
Sandstone, tan, fine few black inclusion	grained, friable, calcareous, subrounded grains, with s; shale, variegated as above.	328	340
Shale, variegated, habove.	rown, brownish red, gray, silty, firm; sandstone, tan as	340	346
Shale, variegated as Shale, variegated as	above; with sandstone, tan, very fine grained, hard. above; sandstone, very fine to fine grained, tan as	346	367
above.		367	390
Shale as above; sand		390	408
some sandstone ten	fine grained, friable, calcareous, well sorted, clean; very fine grained, hard; shale, variegated, silty.	408	LTO
Shale as above; sand		408	419 439
			~~~ /
	fine grained, friable, calcareous, well sorted, clean;	,	
shale, variegated,	fine grained, friable, calcareous, well sorted, clean; silty.	439	448
shale, variegated, Shale, mostly gray,	fine grained, friable, calcareous, well sorted, clean;	439	448
shale, variegated, Shale, mostly gray, above.	fine grained, friable, calcareous, well sorted, clean; silty. some variegated, some silty, firm to soft; sandstone as	439 448	448 461
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a	fine grained, friable, calcareous, well sorted, clean; silty. some variegated, some silty, firm to soft; sandstone as above; sandstone as above.	439	448
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.	fine grained, friable, calcareous, well sorted, clean; silty. some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476;	439 448 461 470	448 461 470 476
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples. Shale, gray, variega	fine grained, friable, calcareous, well sorted, clean; silty. some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476' ted, silty, firm; trace sandstone, tan, very fine grained	439 448 461 470	448 461 470 476 480
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples. Shale, gray, variega Shale as above; incr	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.	439 448 461 470 .476 480	448 461 470 476 480 500
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples. Shale, gray, variega Shale as above; incr Same as above; decre	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.	439 448 461 470	448 461 470 476 480
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.	439 448 461 470 .476 480	448 461 470 476 480 500
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476; ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above. ase in sandstone. e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above. above; sandstone as above.	439 448 461 470 .476 480 500	448 461 470 476 480 500 520
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.  above; sandstone as above.  , very fine grained, some fine grained, friable, well	439 448 461 470 .476 480 500	448 461 470 476 480 500 520
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476; ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above. ase in sandstone. e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above. above; sandstone as above.	439 448 461 470 .476 480 500	448 461 470 476 480 500 520
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan sorted, clean, calc	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.  above; sandstone as above.  , very fine grained, some fine grained, friable, well	439 448 461 470 .476 480 500 520 530	448 461 470 476 480 500 520 530 560
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan sorted, clean, calc	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.  above; sandstone as above.  , very fine grained, some fine grained, friable, well	439 448 461 470 .476 480 500 520 530	448 461 470 476 480 500 520 530 560
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan sorted, clean, calc	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.  above; sandstone as above.  , very fine grained, some fine grained, friable, well	439 448 461 470 .476 480 500 520 530	448 461 470 476 480 500 520 530 560
shale, variegated, Shale, mostly gray, above. Shale, mostly gray a No Samples.  Shale, gray, variega Shale as above; incr Same as above; decre Sandstone, gray, fin black inclusions; s Shale, variegated as Sandstone, gray, tan sorted, clean, calc	fine grained, friable, calcareous, well sorted, clean; silty.  some variegated, some silty, firm to soft; sandstone as above; sandstone as above.  Lost Circulation @ 476'  ted, silty, firm; trace sandstone, tan, very fine grained ease in sandstone, tan as above.  ase in sandstone.  e grained, friable, well sorted, clean, with pink and hale, variegated, silty as above.  above; sandstone as above.  , very fine grained, some fine grained, friable, well	439 448 461 470 .476 480 500 520 530	448 461 470 476 480 500 520 530 560

Page 2

Farm

Chalk Creek Government

Well No.\_

Mountain Fuel Supply Company

are open.

FORMATION RECORD FORMATION RECORD						
	From	То				
Same as above; increase in sandstone; shale, variegated.	580	590				
Sandstone as above, much loose; shale, variegated, silty as above.	590	617				
Sandstone, white, fine grained, some very fine grained, loose, friable, o	lean.					
well sorted, no fluorescence; shale, variegated as above.	617	630				
Shale, variegated, gray, brown, tan, silty, firm; sandstone, tan, white,	· · · · · · · · · · · · · · · · · · ·					
loose.	630	710				
Shale as above; sandstone, white, tan, loose and friable.	710	720				
Shale as above; sandstone as above.	720	730				
Shale, variegated, silty as above; sandstone, loose, fine grained.	730	760				
Shale as above; sandstone, very fine to fine grained, tan to gray, hard,	170	100				
calcareous, some black and pink grains.	760	770				
Sandstone, light gray, fine grained, hard to friable, well sorted, clean,		110				
abundant tan, black and pink grains, fluorescent; shale, variegated.	770	790				
Decrease in sandstone, no fluorescence; shale, variegated as above.	790	840				
Shale, variegated, silty to sandy, firm; sandstone.	840	890				
Same as above; increase in sandstone to mostly sandstone, very fine grain		070				
		000				
hard; trace limestone, white.	890	900				
Shale, variegated, silty, firm; sandstone, tan, very fine grained, hard.	900	930				
Sandstone, tan, very fine grained, hard, calcareous, well sorted, with cl						
matrix; shale, variegated; some evidence of calcite filled fractures.	930	950				
Core #1: 950'-993' Recovered 18'						
001e #1: 900990.						
<ul> <li>6.0' - Shale, dark brown, sandy, hard, calcareous.</li> <li>7.0' - Siltstone, tan, very hard, calcareous, with a few black grains, v calcite filled fractures, some veining or possible bedding at 30 l.5' - Shale, red and gray, mottled, silty, hard, blocky, calcareous.</li> <li>3.5' - Shale, gray, silty, firm to hard, calcareous, blocky, bottom of c burnt in.</li> </ul>	o <sub>.</sub>					
Lost core probably from bottom.						
Core #2: 993'-1001.5' Recovered 8.5'						
2.5! - Shale, dark brown and gray, mottled, silty, hard, calcareous, blo calcite filled fractures at 10° and 80°.	cky with	· ·				
6.0° - Sandstone, light gray, very fine grained, hard, calcareous, with filled fractures at 35°, spotty yellow fluorescence and cut in b foot.	calcite ottom					
en e						
Core #3: 1001:51-10271 Recovered 251						
1.0' - Sandstone, light gray, very fine grained, well sorted, calcareous silty matrix, some black and pink grains, no shows.	, hard,					
0.5° - Shale, gray, calcareous, hard with shale conglomerate, appears to reworked shale of 1/4 to 1" inclusions.	be					
3.0° - Sandstone, light gray, very fine grained, hard, calcareous, silty some black and pink grains, no shows.	matrix,					
3.0° - Shale, conglomerate, gray and light gray, hard with rounded dark gray shale inclusions, calcareous.	to light					
1.0' - Shale, gray, hard, slightly calcareous.						
4.0' - Shale, gray, green, red mottled, silty, hard, noncalcareous.						
6.0' - Siltstone, green and brown, hard, calcareous, with green and black 2.0' - Siltstone, gray, hard, calcareous, with black grains.	k grains.	:				
2.5' - Shale, brown, hard, calcareous, blocky with fractures at 80°, fractures at 80	ctures					

1.5' - Shale, red and gray mottled, calcareous, hard with conchoidal fracture.

0.5' - Shale, dark gray, firm, waxy, calcareous with abundant biotite.

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Core #4: 1027'-1055' Recovered 281

1.5' - Shale, dark gray, firm, waxy, slightly calcareous, possibly 30° bedding. 5.0' - Shale, red and gray mottled, silty, calcareous, firm.

6.0' - Siltstone, greenish gray, calcareous, hard, tight.

4.5' - Shale, dark gray to black, waxy, noncalcareous, blocky, possible bedding at 30° and calcite filled fractures at 50°.

11.0' - Shale, brownish red, calcareous, firm, hard.

Core #5: 1058'-1099' Recovered 40', made 3' depth correction

40.0' - Shale, brown, slightly calcareous to calcareous, slightly silty to silty, firm to hard with some shale, gray to black, slightly calcareous, waxy with calcite filled fractures at 30° and 50°.

Core #6: 1099'-1145' Recovered 46'

10.00 - Shale, brown, gray, silty, slightly calcareous to noncalcareous, firm, with calcite filled fractures at 50°.

10.0! - Siltstone, brown with some gray, hard, calcareous.

4.0' - Shale, brown, silty, firm, calcareous, micaceous with calcite filled fractures.

7.0' - Siltstone, brown as above.

15.0' - Shale, brown as above, some fractures at 80°, not calcite filled.

#### Recovered 501 Core #7: 1145'-1195'

1.0! - Shale, brown and gray mottled, silty, noncalcareous, firm with waxy luster.

6.5! - Siltstone, brown and gray mottled, noncalcareous, hard, micaceous.

5.0' - Shale, brown and gray mottled as above with vertical fractures, open.

7.5' - Siltstone, brown, hard, slightly calcareous, micaceous with fluorescence and vertical fractures, open.

10.0' - Shale, gray brown mottled, slightly silty, soft to firm, noncal careous, slakes.

4.0' - Shale as above, silty and calcareous, hard.

1.0' - Siltstone, medium gray, calcareous, hard, micaceous.

5.0' - Shale, brown gray mottled, firm, noncalcareous, waxy.

1.0' - Siltstone, green gray, hard, conchoidal fractures.

5.5! - Shale, brownish gray, soft, firm, noncalcareous, slakes.
3.5! - Sandstone, light gray, very fine to fine grained, very calcareous, hard, with green and brown grains, fair sorting, looks tight, no show.

#### Recovered 501 Core #8: 1195'-1245'

1.5! - Shale, greenish gray, silty, firm, slightly calcareous, blocky.
3.5! - Shale, brown, red and gray mottled, silty, firm, noncalcareous, waxy.
11.5! - Shale, black with some gray, very silty, noncalcareous, hard, questionable fractures at 45°.

3.5' - Siltstone, gray, brown, calcareous, hard with some brown and green grains.

4.0' - Shale, gray, green, soft, silty, slakes, slightly calcareous.

2.0' - Shale, reddish gray, silty, noncalcareous, hard.

6.0' - Sandstone, brown to gray, very fine grained, limey, silty with black and brown grains, tight, no show.

2.0' - Siltstone, brown, calcareous, hard, micaceous with green and black grains, open fractures at 75° with live oil.

6.0' - Shale, black to gray, mottled, silty, hard, calcareous with conchoidal fractures.

5.0' - Shale, gray to green, waxy, slightly silty, slakes. 5.0' - Shale, brown, silty, noncalcareous, hard.

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Core #9: 1245'-1285' Recovered 40'

24.0° - Shale, brown with some gray, silty, hard, calcareous with calcite filled fractures at 20°.

1.0' - Shale, gray, hard, slightly calcareous.

6.0' - Sandstone, very fine to fine grained, gray, calcareous, hard with some gray grains, calcite filled fractures at 80° with oil fluorescence, tight.

5.0' - Shale, dark gray, hard, slightly calcareous, silty, a probable bedding plane at 25°.

4.0' - Sandstone, gray, very fine to fine grained, hard, calcareous, tight, some green grains, vertical open fractures with oil fluorescence.

Core #10: 1285'-1295' Recovered 10'

8.0' - Sandstone, fine to medium grained, gray, vertical fractures with fluorescence, slightly calcareous, thin to 1/2-inch shale streaks, pyritic, a bedding plane at 32°, tight.

2.0' - Sandstone, fine to medium grained, gray, calcareous, some slight streaks of shale, some carbonaceous inclusions, 1/2-inch wide calcite filled vein at 80° which probably stopped the coring as the barrels jammed, porous.

Core #11: 1295'-1324' Recovered 29\*

1.0' - Siltstone, dark gray, hard, calcareous.

1.5' - Shale, brown, gray, soft, slakes, slightly calcareous.

2.5' - Shale, greenish gray, silty, hard, calcareous with calcite filled fractures at 30° and 70°.

2.5' - Shale, gray, soft, slakes, calcareous.

5.0' - Shale, greenish gray, hard, slightly calcareous, silty.

7.5' - Sandstone, fine grained, gray, hard, calcareous, calcite filled fractures at 30° and 70°, some unfilled fractures at 70° with spotty fluorescence, looks tight.

9.0° - Sandstone, very fine to fine grained, gray, hard, calcareous, some green and brown grains with open fractures at 70° with spotty fluorescence, tight.

#### Core #12: 1324'-1350' Recovered 26'

1.0° - Sandstone, fine to medium grained, gray, micaceous, pyritic, calcite filled fractures at 70°, a bedding plane at 17°, calcareous, mineral fluorescence,

2.0' - Shale, gray, hard, calcareous, calcite filled vugs.

7.0 - Sandstone, fine to medium grained, some coarse grains, green and brown grains, calcareous, hard, thin shale streaks at 10°, calcite filled fractures , one fracture filled with siltstone, yellow fluorescence, probably mineral, fair porosity.

6.0' - Shale, grayish brown, soft, calcareous, slakes, calcite filled fractures at

70°.

10.0° - Shale, brown, hard, calcareous with light gray streaks.

# Core #13: 1350'-1378' Recovered 28'

6.0' - Shale, brownish gray, silty, calcareous with thin to  $l_2^{\pm n}$  thick silty streaks.

1.0° - Siltstone, gray, hard, calcareous with thin shale streaks. 4.5° - Shale, black, silty, hard, slakes, calcareous, calcite filled fractures at 30°.

7.5' - Sandstone, very fine to fine grained, gray, many thin shale streaks, calcite filled fractures at 70°, some fluorescence in fractures.

9.0' - Sandstone, medium grained, some coarse grained, gray, calcareous, friable to hard, fractures at 70°, some calcite filled, much fluorescence on fractures in friable portion.

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Core #14: 1378'-1409' Recovered 31'

20.0 - Interbedded shale, black, silty, calcareous, slakes, and sandstone, medium to coarse grained, hard to friable, gray, pyritic, calcareous, looks tight to porous, sandstone and shale beds vary from 1 to fractions of an inch in thickness, calcite filled fractures at 70° throughout.

3.5' - Shale, grayish black, silty, pyritic, calcareous, soft, calcite filled fractures at 70°, a bedding plane at 20°.

7.5' - Sandstone, very fine to fine grained, gray, calcareous, hard to friable with vertical calcite filled fractures and some thin shale streaks, with two beds of siltstone, dark gray, hard, calcareous, pyritic, shaley with calcite filled fractures at  $70^{\circ}$ .

#### Core #15: 1409'-1429' Recovered 201

- 3.0' Sandstone, gray, fine grained, some medium grained, hard to friable, calcareous with abundant brown and green grains, gold fluorescence, looks tight, vertical open fractures.
- 2.0' Sandstone, gray, very fine to fine grained, hard, tight, very calcareous, abundant pyrite, no fluorescence and vertical open fractures.

1.0° - Sandstone, gray, same as top 3°.

- 0.5° Shale, greenish gray, hard, noncalcareous, silty, with conchoidal fractures.
- 4.0' Sandstone, gray, very fine grained, very silty, some thin shale streaks, calcareous, hard, tight, with green, brown and black grains, calcite filled fractures at 50°, no show.
- 1.5° Shale, black, calcareous, brittle with waxy luster, calcite filled fractures at 70°.
- 2.0' Sandstone, gray, very fine grained, with some medium grained, poorly sorted, with green, brown, black and orange grains, hard and tight, calcareous, some very thin gray shale streaks.
- 3.0° Shale, black to dark gray, hard, silty, with calcite filled fractures at 50° and 70°.
- 3.0° Sandstone, gray, very fine to coarse grained, brown and orange grains, very silty with very thin green shale streaks, some small brown shale inclusions, appears to be reworked sediments, very highly fractured with fluorescence in fractures.

#### Core #16: 1429'-1452' Recovered 231

- 1.5° Shale, dark gray, silty, calcareous with thin streaks of sandstone.
  12.0° Sandstone, gray, very fine to fine grained, calcareous, hard to friable, silty, looks tight, abundant fine black grains, possible cross-bedding, good to spotty fluorescence, open fractures at 50°, 70°, and vertical.

  5.0° - Sandstone, gray, very fine to fine grained, hard, calcareous, tight, silty,
  - few coarse grains, poorly sorted with dark and light gray shale breccia, average size about l\*, spotty fluorescence.

3.0' - Sandstone, gray, same as 12' above with spotty fluorescence.

1.5' - Shale, conglomerate breccia, dark gray shale matrix with some rounded gray dense crystalline limestone cobbles, 2° on the long axis, some brown thin crystalline limestone, some shale breccia, not well indurated.

#### Core #17: 1452'-1466' Recovered 14'

- 4.0' Sandstone, conglomerate, dark gray to medium gray, very fine to coarse grained, angular grains, poorly sorted, shaley, cherty, calcareous, hard, some pebble sized grains, looks fused in part, some fluorescence where sandy, open fractures at 40°.
- 2.01 Shale, conglomerate breccia, inclusions are chert, crystalline limestone, white and brown, some cobble sized sandstone and gray chert matrix is finely pyritic and hard.

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# Core #17 (Cont\*d.)

7.5' - Sandstone, gray, fine to medium grained, poorly sorted, angular grains, calcareous, silty, hard to friable, abundant black grains, some brown and orange grains, looks tight, possible bedding at 23°, open and calcite filled fractures at 55°; possible cross-bedding, good fluorescence and cut in

sandstone and fluorescence in fractures.

0.5° - Sandstone, gray, very fine grained, calcareous, hard, tight with clay matrix, fair fluorescence.

Core #18: 1466\*-1487\* Recovered 21\*

12.0° - Sandstone as in 7.5° above, good fluorescence, vertical and calcite filled fractures, open fractures at 60° in basal foot.

5.5' - Sandstone and shale conglomerate, coarse grained to pebble sized with chert,

limestone, shale and quartz and silty to sandy matrix.

3.5° - Shale, dark gray, calcareous, hard, silty with very thin sandstone streaks containing abundant pyritic veining.

Core #19: 1487'-1515' Recovered 281

3.0° - Shale, gray, silty, hard, calcareous with calcite filled fractures from 30 to 60°. 7.0° - Sandstone conglomerate, sandstone inclusions, pebble to conglomerate, 1/4° to

3° in size, subrounded to rounded, hard, fine grained, gray, calcareous, matrix very fine to coarse grained, angular, calcareous with abundant chert, dark gray, brown and white limestone with veins of good fluorescence.

5.0 - Sandstone, gray, very fine grained, hard, very calcareous, tight with calcite filled fractures at 80° and vertical, spotty fluorescence, top contact at 30°.

1.0' - Siltstone, gray, brown, hard, calcareous with conchoidal fractures.

12.0' - Shale, brownish red with some gray mottling, silty, hard, calcareous, micaceous, containing occasional pebbles, tan, rounded crystalline limestone.

Core #20: 1515\*-1546\* Recovered 31'

6.0° - Shale, gray with red mottling, silty, calcareous, slakes, calcite filled fractures at all angles.

9.0° - Shale, brownish red, some gray mottling, hard, calcareous, silty, calcite filled fractures at 30 and 50°.

13.0 - Shale, brownish gray, calcareous, silty, slakes with abundant irregular calcite filled veins and pods.

 $3.0^{\circ}$  - Siltstone, brown with gray mottling, hard, calcareous, micaceous with open fractures at  $70^{\circ}$  to  $80^{\circ}$ .

#### Core #21: 1546\*-1596\* Recovered 50'

- 23.0° Siltstone, brown, hard, calcareous, some gray mottling, fractures at 70°, shaley. 1.0 - Sandstone, medium to coarse grained, gray, hard, calcareous, some fluorescence,
- fair porosity.
- 0.5' Shale, brownish red, soft, calcareous, calcite filled fractures at 30 to 70°.
  9.0' Shale, gray, soft, calcareous, 1/4" calcite filled fractures at 30°.

- 3.0' Shale, grayish black, soft, calcareous, calcite filled fractures at 70°, some fluorescence.
- 3.5° Shale, grayish black, soft, calcareous, calcite filled fractures at 70°, some fluorescence, possible bedding plane, some limey brown nodules.

0.5' - Shale, gray, soft, calcareous, fluoresces, gray mottled, silty.

- 2.0° Shale, grayish black, calcareous, calcite filled fractures at 20°, possible bedding plane, some limey nodules.
- 2.5° Shale, brownish gray, calcareous, slakes, soft, calcite filled fractures at 250 and 700.
- 5.0° Siltstone, brownish red, calcareous, hard, calcite filled fractures at 40° with limey green nodules, some fluorescence.

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Core #22: 1596'-1605' Recovered 8

8.0% - Shale, brownish red, mottled with gray, soft, calcareous, with calcite filled fractures at 700, bottom burnt in.

Core #23: 1605'-1621' | Recovered 16'

16.0° - Shale, brownish red with gray mottling, slightly calcareous, silty, waxy with calcite filled fractures at all angles.

Core #24: 1621 -1628

3.0' - Shale, brownish red as previous core.

4.0° - Siltstone, brown with gray mottling, calcareous, micaceous with some black inclusions, hard, calcite filled fractures at all angles.

Core #25: 1628:-1634: Recovered 6

1.0° - Siltstone, light gray with brown mottling, calcareous with micaceous and black inclusions, hard, calcite filled fractures at 30° and vertical.

5.0° - Shale, brownish red with gray mottling, very slightly calcareous, silty, micaceous with waxy texture, top contact at 28°, possibly some open fractures at 20° to 30°.

Core #26: 1634\*-1645\* Recovered 11\*

4.0° - Sandstone, grayish brown and gray, very fine grained, limey, pyritic with abundant green and black grains, fair sorting, subangular, looks tight, l.0° bleeding oil, calcite filled fractures at 70° and vertical.

7.09 - Siltstone, brownish red, calcareous, micaceous with black grains and small coal inclusions along contact, hard, calcite filled fractures at 30° and 20°.

Core #27: 1645:-1658: Recovered 138

12.0 - Siltstone, brownish red, calcareous, shaley, micaceous, black grains, hard, calcite filled fractures at all angles.

1.0 - Siltstone, gray, calcareous, shaley, micaceous, black grains and red inclusions, hard.

Core #28: 1658'-1673' Recovered 15°

10.0° - Siltstone, grayish brown, shaley, slightly calcareous, firm with calcite filled fractures at 30° and 45°.

5.0% - Siltstone, brown, mottled with gray, shaley, slightly calcareous, firm to hard, no visible fracturing.

Core #29: 1673!-1722! Recovered 49\*

7.0 - Siltstone, brown, gray mottled, shaley, slightly calcareous, hard, calcite filled multi-angled fractures.

7.0% - Sandstone, tan, very fine grained, very silty, calcareous, green and black grains, micaceous, angular, fair sorting, hard, tight, no fluorescence, multi-angled calcite filled fractures.

35.0° - Shale, brown, gray bands and mottling, very silty, calcareous, some coarse grained, brown and black, rounded inclusions with a hard dull texture. multi-angled calcite filled fractures.

Core #30: 1722:-1771: Recovered 49:

46.0° - Shale, brown with some light gray mottling, silty, calcareous, hard, micaceous, dull, multi-angled calcite filled fractures throughout.

3.0° - Siltstone, light brown, shaley, very calcareous, hard, micaceous, multiangled calcite filled fractures throughout.

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Core #31: 1771'-1788' Recovered 17'

- 12.0 Siltstone, brown, shaley, calcareous, hard, micaceous with multi-angled calcite filled fractures.
  - 5.0' Sandstone, light gray with thin dark gray to black bands, very fine grained, slightly calcareous, silty, hard with some black grains, multi-angled calcite filled fractures, good scattered fluorescence.

Core #32: 1788'-1815' Recovered 271

- 2.0' Sandstone, light gray with thin dark gray to black bands, very fine grained, silty, slightly calcareous, hard, scattered fluorescence, multi-angled calcite filled fractures.
- 1.5° Sandstone, light gray, fine grained, slightly silty, calcareous, some dark grains, good fluorescence, multi-angled calcite filled fractures.
- 2.0' Sandstone, light gray, very fine grained, silty, calcareous, scattered fluorescence, multi-angled calcite filled fractures.

0.5' - Shale, dark gray, silty, soft, sticky.

- 8.5' Sandstone, light gray, very fine grained, silty, calcareous, hard, tight, some black grains, scattered fluorescence, multi-angled calcite filled fractures.
- 1.0° Conglomerate, dark gray chert and limestone pebble inclusions in a dark gray shale matrix with some sandstone grains, pebbles are angular.
- 3.0' Conglomerate made up of some chert pebbles and sandstone pebbles, sandstone matrix is dark gray, fine to coarse grained, calcareous, hard, with scattered fluorescence, pebbles are angular.
- 8.5' Sandstone, gray, very fine grained, very silty, calcareous, hard, tight, no fluorescence, multi-angled calcite filled fractures.

#### Core #33: 1815'-1863' Recovered 48'

- 8.5' Sandstone, light gray, very fine grained, calcareous, silty, hard, multiangled calcite filled fractures.
- 11.0' Sandstone, gray, fine grained, calcareous, silty, hard, good fluorescence, multi-angled calcite filled fractures.
- 6.0' Sandstone, gray, very fine grained, calcareous, very silty, hard, tight.

7.0' - Sandstone, gray, fine to coarse grained, calcareous, silty, hard.

- 1.5' Conglomerate, medium, made up of angular to subrounded chert and limestone pebbles, white, up to 1/2" in diameter in a dark gray calcareous, hard, shaley matrix with fine to very coarse grained sandstone grains, scattered throughout.
- 14.0 Sandstone, gray, medium grained, calcareous, silty, hard.

#### Core #34: 1863'-1894' Recovered 31'

- 2.0° Sandstone, gray, fine to coarse grained, calcareous, silty, poorly sorted, angular, hard, tight with brown and black grains and some large pebble sized brown limestone inclusions, calcite filled fractures at 30 and 45°.
- 4.0' Conglomerate, brown and gray limestone pebbles, 1/16" to 3/4" in diameter, subangular, crystalline in a matrix of sandstone, fine to very coarse grained, calcareous, slightly silty with brown and black chert grains, very hard, tight, calcite and pyrite filled fractures at 60 and 75°.

  2.0' - Shale, brown and gray, calcareous, silty, dull to waxy, hard, multi-angled

calcite filled fractures.

- 2.5' Shale, brown and gray, calcareous, silty, firm, slakes, calcite filled fractures. 4.0' Shale, brown with gray mettling, calcareous, silty to sandy, hard, dull, multiangled calcite filled fractures.
- 4.0° Siltstone, brown with gray mottling, calcareous, sandy, micaceous, hard with some red grains.
- 10.0° Shale, brown with gray mottling, calcareous, silty, hard, calcite filled fractures at 30 to 40°.
- 2.01 Siltstone, tan, slightly calcareous, sandy with black, red and brown grains, vertical open fractures.
- 0.5' Sandstone, tan, very fine grained, calcareous, silty, with black, brown and green grains, micaceous, hard, tight, subangular grains, fair sorting, no fluorescence.

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Core #35: 1894'-1927' Recovered 33'

9.0 - Sandstone, as bottom of previous core, multi-angled calcite filled fractures, spotty yellow fluorescence.

7.5' - Sandstone, gray, very fine to fine grained, few streaks of coarse grained, angular, calcareous, silty, poorly sorted with red, brown and black grains, hard, tight, no fluorescence, multi-angled calcite filled fractures.

16.5° - Shale, brown, gray mottled, grading to brown and gray at bottom, calcareous, silty, micaceous, hard, dull multi-angled calcite filled fractures.

Core #36: 1927'-1952' Recovered 22'

14.0' - Shale, brown with gray mottling, silty, calcareous, waxy, firm, abundant multi-angled calcite-filled fractures.

6.0° - Shale, brown with gray mottling, silty, calcareous with inclusions of coarse crystalline limestone, slakes.

2.0' - Shale, brown with gray mottling, same as top 14'.

3.0' - Lost core.

Core #37: 1952'-1965' Recovered 13'

13.0' - Shale, brown, gray mottled, silty, calcareous, fine to soft, waxy, multi-angled calcite-filled fractures.

Core #38: 1965'-1987' Recovered 20'

11.0° - Shale, brown and gray mottled, silty, calcareous, firm to soft, multi-angled, calcite-filled fractures.

3.5' - Siltstone, brown, gray mottled, calcareous, shaley, hard, multi-angled calcite-filled fractures.

5.5' - Shale, brown, gray mottled, calcareous, silty, hard, multi-angled calcite-filled fractures.

2.0' - Lost core.

Core #39: 1987!-2023! Recovered 36!

36.0' - Shale, as bottom of previous core.

Core #40: 2023'-2048' Recovered 25'

6.5' - Shale, brown, gray mottled, calcareous, silty to sandy, firm, slakes with inclusions of gray dense hard limestone, a 1/4 to 3/4-inch subangular fragment; multi-angled, open and calcite filled fractures.

4.5' - Shale, as above, becoming sandy and hard.

- 9.0' Shale, same as top of core, but appears to be deformed or crushed, many multi-angled calcite-filled fractures, possible fault zone?
- 5.0° Shale, brown with trace of gray mottling, noncalcareous, silty to sandy, hard, one 3" angular sandstone inclusions, very fine grained, possibly a carbonaceous, hard, noncalcareous, multi-angled calcite-filled and open fractures.

Core #41: 2048'-2098' Recovered 50'

- 5.0° Shale, brown, gray mottled, calcareous, silty to sandy, hard, micaceous, with black inclusions, multi-angled calcite filled fractures.
- 3.0° Sandstone, tan, very fine grained, calcareous, silty, hard, tight, micaceous with some organic and black inclusions, no fluorescence, no fractures, transitional with shale above.
- 20.0° Shale, brown, gray mottled, calcareous, silty to sandy, hard, micaceous with some black inclusions, few open fractures at 70°.

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	Core #41 (Cont'd.)				From	To
1.0° 6.0° 10.0°	<ul> <li>Sandstone, tan, very fine abundant black and brown multi-angled calcite fill</li> <li>Shale, as above.</li> <li>Sandstone, as above.</li> <li>Siltstone, tan, calcareou angled calcite filled fr</li> <li>Shale, brown with trace of</li> </ul>	n, fine inclus lled fractures us, hard, tran ractures.	sions, micac	eous, no fl th sandstor	uorescence,	
	transitional with siltst	cone above, no	fractures.	out, i	aroy y maray	
5.51	<ul> <li>Shale, as bottom of previ</li> <li>Siltstone, brown, gray mo</li> <li>angled calcite filled fr</li> <li>Sandstone, gray, very fin</li> </ul>	ttled, limey, ractures, cont ne grained, li	act at top a mey, very ha	at 50°. ard. tight.	with abundar	nt
1.0	black, red, and brown in fractures, contact at to - Siltstone, as above, few sandstone, with composit - Sandstone as above, no fl	nclusions, mul op at 24°. inclusions of ion of sandst	ti-angled, reworked for	very fine, ragments of	calcite fille	ed

Shale, brown, with gray mottling, sandy, calcareous; sandstone, white, very		
fine grained, hard, calcareous, well sorted; siltstone, brown, calcareous,		
hard.	120	2135
Shale as above; sandstone as above; some sandstone, gray, medium gray, hard, calcareous, poorly sorted; siltstone, tan, hard, calcareous.	2135	2145
Shale, brown, with gray mottling, firm, calcareous; siltstone, brown and		
tan, hard, calcareous; sandstone, gray, very fine grained, calcareous, hard.	2145	2155
Shale as above; sandstone, tan, very fine grained, calcareous, hard, well		
sorted; siltstone, brown as above; trace sandstone, white, very fine grained,		
	2155	2165
	2165	2175
Shale, brown, silty to sandy, firm; sandstone, tan and white, hard, calcareous	2.	
siltstone, brown, hard; trace limestone, gray, dense, hard; trace shale,	,	
	יים מו מיר	2010
	2175	2210
Shale as above; increase in sandstone, gray, white, very fine to fine grained,		-
hard, calcareous, some with green and brown grains; siltstone as above.	2210	2230
Shale, brown, silty and sandy as above; sandstone as above; siltstone, brown		
and tan; some evidence of calcite-filled fractures.	2230	2260
Shale as above; sandstone as above; trace shale, gray, firm, silty.	2260	2270
Shale, brown as above; sandstone as above; sandstone, gray, fine grained, friable to loose, calcareous, bentonitic; trace coal; some shale, gray,		
firm, silty, abundant bentonitic.	270	2280
Shale, becoming greenish-gray, silty, firm; sandstone, gray, greenish-gray, very fine grained, firm, to friable, abundant black, fine inclusions,		
silty, calcareous, bentonitic; trace coal.	2280	2299
THRUST FAULT @ 22991		

FRONTIER @ 2299!	\$.F	
Sandstone, tan, very fine to fine grained, loose, well sorted; some shale, greenish-gray, silty, soft, bentonitic; trace coal.	2299	2325
Sandstone as above; some sandstone, gray, salt & pepper, fine grained, calcareous, friable; trace coal; some greenish-gray, dense, gypsiferous anhydrite, translucent, fairly hard; some evidence of calcite-filled		4. . %
fractures in sandstone; shale, gray, greenish gray, firm, silty.	2325	2349

TOTAL DEPTH - 23491.

Form 9-330

BEST COPY AVAILABLE

Budge au No. 42-R355.4. Approval ires 12-31-60.

U. S. Land Office Salt Lake

SERIAL NUMBER 070555

LEASE OR PERMIT TO PROSPECT 1.

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

					T d	റദ	OF (	DIL OR G	ACT	a/ti	<b>a</b>
LO	CATE WEL	L COF	RECTLY	<u></u>	Accord 1				A CLAS	V C.L.	<b></b>
Comp	any Mour	tair	Fuel S	Supply	Compan	У	Addres	P. O. Box 1	1129, Ro	ek Spi	ings, Wyomi
Lesson	or Tract	Fe	deral				Field	Chalk Creek as	ea State	Utal	ı
Well 1	Vo. Gov't	· #5	ec. <b>6</b>	r. 201 R	6E 1	Aeridia	.n S. 1	Cor	nty St	mmit	
Locati	1675	_ ft. 🕶	of F	3. Line a	nd 180	o <sub>ft</sub> XX	K of E.	Line of sec.	. 6	Elev	etion 6563.63
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so far	as can be	deter	rmined fr	rom all a	vailable	7		Himon		II WOLK	done mercon
T .	.Tul.	7.	1960			Signe	d			dent	
Date .					 41	:4:	£ 4111				
								at above date. ed drilling Mey	2		60
Comin	iencea ari	umg .						_			, 19.00
				0	IL OR		$oldsymbol{a} oldsymbol{A} oldsymbol{N} oldsymbol{O} oldsymbol{o}$ $oldsymbol{e}$ gas by $oldsymbol{G}$ )	R ZONES			
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								from			
								from			
				to 18	70' KB	M		from			
Size	Weight	Thi	eads per	Make	Amou				Perfo	rated	
casing	per foot 32.75&4		inch	Spang			of shoe	Cut and pulled from	From-	To-	Purpose
				DISPERIE			<b>Men</b> tolia	aterial used, positio	Ocen-ho	ect num	Surface Production
with t	ge reasons	or the	work and	its result ive its siz	s. if the	re were	any chang the well h	I. Please state in do is made in the casin is been dynamicu; y aterial ased, position	g, state ful ive date, si	r, and if ge, positi	any casing was on, and number
	16a as stan an			e dakil of m	a complet		r of the we	t. Please state in do	stail the da	es of red	rilling, together
					ECLLOS 1			gve mel	IO7808-3	L E GOVIENN	ENT PRINTING COTICE
				MUDI	DING A	ND C	EMENTI	NG RECORD			
Size casing	Where s	et	Numbe	er sacks of c	ement	Me	thod used	Mud gravity	Ar	nount of n	nnd med
3/4	155.38K	BM	125		1		ļ	lecement			th 15.5 bb1
	1783.12	KBM	300			Howco	- disp	lacement	1	78	71 bb1 we
							1		-		~~~~~~~
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	ng plug	Mate	rial				i	I	Janth oat		
Heavi	ng prag	-120,000					p	1	schar see		

	783.1 <b>2KB</b> )	300		Howco	- displa	cement	<del>-</del>	aced with 15.5 bb
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			PLU	GS AND	ADAPTE	RS		
Heaving	g plug—Mat	erial		- Length	1		Depth set	b
Adapter	s—Material			. Size				
			į		RECORI			
Size	Sheil u	ed E	xplosive used	Quantit	y Date	Depth sho	+	Depth cleaned out
				- Gamer		- Depth site		Depui cleaned out
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				TOOLS				
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	ois were use	a 110111	166	DAT				
June	7		10 60	1				be used for
	· <del></del>				i ut to pro	uucing <u>rese</u> inie	ction w	as storage, 19
	1		1		_ barrels			
emulsion	1;% w	ater; and	$\sim \%$ sediment.			Gravity, °I	3é	
If g	as well, cu.	ft. per 24 he	ours	G	allons gas	soline per 1,0	00 cu. ft.	of gas
$\operatorname{Roc}$	k pressure.	lbs, per sq.	in					
			y, Contr.		YEES			
,	L. A. Gre	ene	Drille	r		A. G. War	ren	, Driller
				-			~~~~~~~~~~	
	K. M. Mar	tin	Drille					
	K. M. Mar	tin	Drille	r	*** *** ***			, Driller
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# THE STATE OF UTAH

# OFFICE OF STATE ENGINEER

#### SALT LAKE CITY

WAYNE D. CRIDDLE STATE ENGINEER

January 24, 1961

Mr. Bernard Kastler, Jr., Secretary Mountain Fuel Supply Company F. C. Box 989 Salt Lake City, Utah

He: Ground Water + Ammit County

Dear Mr. Enstlar:

I em writing to confirm several points covered in our brief discussion when both you and Mr. J. T. Simon visited this office last week.

We were advised at the time of your visit that your Chalk Creek Government Well No. 4, constructed as part of your subsurface gas storage investigations, is capable of yielding 7,050 barrels of vater per day, and that the following represents a partial chemical analysis of the water:

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3	•	30	**
C	N. Corr. Gran	173	¥
Ø	wherete	60	ø
3	icarbonate	2776	#
7	vtal.	1279	*

Ph: 8.2

Recistivity: 4.8 chas per meter at 68°F.

It is the understanding of this office that the Mountain Puel Supply Company has no desire to appropriate or sequire any right to the vater yielded by this well, but that the vater is merely a by-product of the subsurface gas storage operation. It is likely that this volume of daily water production will be attractive to others who may seek to sequire a right to use it. Such a right can only be initiated by

filing an application in this office. The processing of the application would include the publication of Notice to Water Users and the setting of a protest period, in which your organization would have an opportunity to set forth your position with regard to your interest in the well and the purpose of its function with regard to the underground storage program.

This office sees no reason why you should not proceed to discharge water from the well as part of your subsurface operations, and it appears from the above water quality information that it is not likely to interfere with the use of other natural water supplies.

We will appreciate the opportunity to collect a water sample after the well has been in production, in order that a more complete chemical analysis can be made by the Water Quality Branch of the U. S. Geological Aurvey as part of its ecoperative program with this office.

Sincerely yours,

Francis F. Mayo, Chief Water Resources Branch

Pikej

ec: /Cil and Gas Conservation Commission

Mr. J. G. Commor Quality of Water Branch U.S.G.S.

Mr. Ignm Thatcher, Chief Bureau of Samitation State Department of Health Heral I homas 328/42/9 Oil tank / welding Doug Stiles Jane In. Just 9/25/74 Re-enter Chalk Creek #1 - Jave Verbal Gordtorage - ( Offical) It unas absention evell

3100 U-09712-A et al (U-942).

#### DECISION

Questar Pipeline Company

P.O. Box 11450

Salt Lake City, Utah 84147

Oil and Gas Leases

U-09712-A et al

# Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

#### /s/ M. Willis

Chief, Minerals ACTING Adjudication Section

Enclosure List of Leases

All District Offices, Utah

MMS, AFS MMS, BRASS

920, Teresa Thompson Clay Basin Unit File

CSeare:s1 3/9/89:1642f

RECEIVED

JAN 2 8 2004

### List of Leases

# Overriding Royalties

U-09712-A U-011246

# Operating Rights

SL-045051-A & B SL-045053-A & B SL-062508 SL-0709555 SL-070555-A SL-075049-AB

Clay Basin Gas Storage Agreement Agreement No. 14-08-0001-16009



# QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400 June 23, 1988 CERTIFIED MAIL

RETURNED RECEIPT REQUESTED #P 879 571 459

Bureau of Land Management Utah State Office CFS Financial Center 324 S. State Street Salt Lake City, UT 84111-2303

Re: Name Change

Mountain Fuel Resources, Inc. to Questar Pipeline Company

Gentlemen:

Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

and Gas Leases in Utah:

No weeks on Wim CA - U=9712-A - Questary 100%

CA well - RT - OR'S mt. Fuel Resources U-11246 Flasquist parding to Questar Every y (0 "

SLC-045051(A) OR'S

SLC-045053(A) OR'S

SLC-045053(B) OR'S

SLC-070555-OR'S

SLC-070555-OR'S

SLC-070555(A) - OR'S

Agreement No. 14-08-0001-16009

(Clay Basin Gas Storage Agreement)

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,

J. B. Neese Senior Landman

JBN/sdg

**Enclosure** 

# OPERATOR CHANGE WORKSHEET

	ROUTING						
	1. GLH						
	2. CDW						
ĺ	3. FILE						

Change of Operator (Well Sold)

Designation of Agent/Operator

# X Operator Name Change

Merger

The operator of the well(s) listed belo	3/7/1988									
FROM: (Old Operator):	TO: ( New Operator):									
N0680-Mountain Fuel Supply Company	N7560-Questa		npany							
180 E 100 S										
Salt Lake City, UT 84139	Salt La	ke City, UT 84	1147							
Phone: 1-(801) 534-5267	Phone: 1-(801) 534-5267									
CA	No.			Unit:						
WELL(S)										
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS		
COALVILLE GAS STORAGE 1	09	020N	050E	4304310691	99990		GS	A		
COALVILLE GAS STORAGE 2	10		-	4304330005	99990		GS	A		
COALVILLE GAS STORAGE 3	10			4304330007	99990		GS	A		
COALVILLE GAS STORAGE 4	10			4304330009	99990		GS	A		
COALVILLE GAS STORAGE 5	10			4304330011	99990		GS	A		
COALVILLE GAS STORAGE 6	10			4304330020	99990		GS	A		
COALVILLE GAS STORAGE 7	10	020N		4304330021	99990		GS	A		
	Ì	i								
CHALK CREEK GOVT 4	06	020N	060E	4304305003	99990	Federal	GS	Α		
OHIO GOVT WELL 1 CHALK CREEK	06	020N	060E	4304305004	99990	Federal	GS	A		
EXOTA UTAH FED L 1	06	020N	060E	4304305005	99990	Federal	GS	Α		
CHALK CREEK GOVT 2	06	020N	060E	4304305006	99990	Federal	GS	A		
CHALK CREEK GOVT 3	06	020N	060E	4304305007	99990	Federal	GS	Α		
CHALK CREEK GOVT 1	06	020N	060E	4304305008	99990	Federal	GS	A		
CHALK CREEK GOVT 5	06	020N	060E	4304305009	99990	Federal	GS	Α		
CHALK CREEK GOVT 6	06	020N	060E	4304305018	99990	Federal	GS	Α		
							<u>-                                    </u>			
					<del> </del>		1	<u> </u>		
	-									
				· · · · · · · · · · · · · · · · · · ·						
OPERATOR CHANGES DOCUME Conter date after each listed item is completed. (R649-8-10) Sundry or legal documentation. (R649-8-10) Sundry or legal documentation.	d on was recei	ived fro		_	,	1/13/2004	<del></del>			
. The new company was checked on the Dep	partment o	f Comr	nerce, l	Division of Cor	porations Dat	abase on:		1/14/2004		
. Is the new operator registered in the State of	of Utah:		YES	Business Numb	oer:	649172-014	2			
. If NO, the operator was contacted contacted	ed on:									

6.	(R649-9-2)Waste Management Plan has been received on:	IN PLACE	<u> </u>	•
7.	Federal and Indian Lease Wells: The BLM and or the B or operator change for all wells listed on Federal or Indian leases or		ed the merge 3/9/1989	r, name change,
8.	Federal and Indian Units:  The BLM or BIA has approved the successor of unit operator for	wells listed on:	_	n/a
9.	Federal and Indian Communization Agreements ("Communication Agreements ("Co	•	n/a	
10	. Underground Injection Control ("UIC" The Division for the enhanced/secondary recovery unit/project for the water disp			nsfer of Authority to Inject, N/A
<b>D</b> 2	ATA ENTRY: Changes entered in the Oil and Gas Database on:	1/29/2004	_	
2.	Changes have been entered on the Monthly Operator Change Spr	read Sheet on:	1/29/2004	
3.	Bond information entered in RBDMS on:	1/29/2004	<del></del>	
4.	Fee wells attached to bond in RBDMS on:	1/29/2004	_	
5.	Injection Projects to new operator in RBDMS on:	n/a	_	
	CATE WELL(S) BOND VERIFICATION: State well(s) covered by Bond Number:	n/a	_	
	EDERAL WELL(S) BOND VERIFICATION: Federal well(s) covered by Bond Number:	965002976		700 m
IN	DIAN WELL(S) BOND VERIFICATION: Indian well(s) covered by Bond Number:	n/a	_	
	CE WELL(S) BOND VERIFICATION: (R649-3-1) The NEW operator of any fee well(s) listed covered by	Bond Number	965003033	·
	The FORMER operator has requested a release of liability from their The Division sent response by letter on:	r bond on: N/A	N/A	
	CASE INTEREST OWNER NOTIFICATION: (R649-2-10) The FORMER operator of the fee wells has been conta of their responsibility to notify all interest owners of this change on:	cted and informe 1/29/2004	d by a letter fro	m the Division
CC	MMENTS:			

is required before commencing operations.

# ATE OF UTAH

SUBM N TRIPLICATES
(O instructions on we'erse side)

	DIVISION OF OIL			5. LEASE DESIGNATION AND SERIAL NO. SLC 070555
	Y NOTICES AND  for proposals to drill of "APPLICATION FOR PS			6. IF INDIAN, ALLOTTES OR TRIBE NAME
OIL UAS X	Gas Stora	ge Well		7. UNIT AGREEMENT NAME
WELL WELL CO.	OTHER GAS DEGLA	ec nerry		Lease E. F. Parkinson 8. FARM OR LEASE NAME
Questar Pipel	ine Company (For	merly Mountai	n Fuel Resources)	Chalk Creek Gas Storage
P.O. Box 1145	0, Salt Lake Cit	y, UT 84147	Called States	MFS Co. Gov't No. 1
LOCATION OF WELL (Repoise also space 17 below.) At surface	rt location clearly and in a			Chalk Creek, Kelvin  11. SEC. 7. S. M., OB BLK. AND
SE NW SE, 1,8	00' FEL, 1,675'	FSL (28)	APR 24 1989	Sec. 6, T2N, R6E
. PERMIT NO.	A 15. BLBYARIO	NS (Show whether DF,	IT. OR FRANCIS	12. COUNTY OR PARISM 18. STATE
43-043-0500	KB 6,75	0' GR 6,563 <sup>0</sup>	L, GAS & MINING	Summit Utah
	Check Appropriate B	ox To Indicate No	iture of Notice, Report, or	
NOTI	CB OF INTENTION TO:		EUBA:	SQUENT REPORT OF:
TEST WATER SEUT-OFF	PULL OR ALTER	CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COM	PLETE	FRACTURE TREATMENT	ALTERING CASING ABANDONMENT*
SHOOT OR ACIDIZE	XX ABANDON*		SHOUTING OR ACIDIZING	ABAROURBAT
(Other) See Below	CHANGE PLANS		(Other)(Note: Report resu	its of multiple completion on Weil mpletion Report and Log form.)
increase well  1. Run 2 1/4	deliverability:	O.D. tubing a	-	vorkover program to section out to 1,831'
3. Acidize w	ell with 1,200 g	als. 7.5% HCI		
		·		
18. I hereby certify that th	e foregoing is true and co	rrect		
SIGNED A	troktu es	TITLE Man	ager, Reservoir Eng	S. DATE April 20, 1989
(This space for Federal	or State office use)			D BY THE STATE H DIVINGN OF
COMPLIA S OF APP	ROVAL, IF ANT:	TITLE		S, AND MINING
	roval of this action		DATE: 5	4-89

# DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

	DIVISIO	ON OF OIL, GAS, AND MI	VING	5. LEASE DESIGNATION AND SERIAL NO.
			_	SLC 070555
	SUNDRY NOTI	CES AND REPORTS ( als to drill or to deepen or plug b TION FOR PERMIT—" for such pi		6. IF INDIAN, ALLOTTES OR TRIME NAME
			Annual control of the	7. UNIT AGREEMENT NAME
	WELL WELL X OTHER	Gas Storage Well	TE (FISINOVIE) N	Lease E. F. Parkinson
	NAME OF OPERATOR		0.1	8. FARM OR LEASE NAME
	Questar Pipeline Compa	ny Mountain the	TAUPPIT S	Chalk Creek Gas Storage
,	ADDRESS OF OPERATOR		SEP 06 1989	9. WBLL NO.
	P.O. Box 11450, Salt L			MFS Co. Gov't No. 1
	LOCATION OF WELL (Report location of See also space 17 below.)	early and in accordance with any	State requirements.	Challe Crook Wolvin
	At surface		Obstations as assume , a	Chalk Creek, Kelvin
	SE NW SE, 1,800' FEL,	1,675' FSL		Sec. 6, T2N, R6E
4.	PERMIT NO.	15. BLEVATIONS (Show whether of		12. COUNTY OR PARISM 18. STATE
	43-043-05008	KB 6,750' GR 6,563	3 *	Summit   Utah
6.	Check Ap	propriate Box To Indicate N	lature of Notice, Report, o	r Other Data
	NOTICE OF INTEN			SEQUENT REPORT OF:
				REPAIRING WELL
		PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	ALTERING CASING
	<del></del> 1	MULTIPLE COMPLETE	SHOUTING OR ACIDIZING	XX ASANDONMENT*
		HANGE PLANS	See Below	<i>y</i>
	(Other)		B B	ults of multiple completion on Well mpletion Report and Log form.)
7.		RATIONS (Clearly state all pertinen		tes, including estimated date of starting any ctical depths for all markers and zones perti-
			. tubing and cleaned	d well to 1,872' K.B.
		1,200 gallons 7.5% I		3101011
	The well will flow thr coming seasons.	ough both tubing and	annulus simultaneou	
	O		•	OIL AND GAS
				DRN F
				JRB I GLH
				DTS SLS
				12-TAS
				Z. MICEOFILM
18	I hereby ceretty that the foregoing !	s grue and correct		
	La stage of the		nager, Reservoir Eng	DATE 9/5/89
	BIGNED	_ X		
#	(This space for Federal or State of	ice use) '		
	ADDROVED BY	TITLE		DATE

APPROVED BY COMPANY: S OF APPROVAL, IF ANY:

# **NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004**

ACCT	OPERATOR NAME	API NUM.	Sec	Twnshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4304305003	06	020N	060E	Chalk Creek Gov 4	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305004	06	020N	060E	Ohio Govt Well Chalk Creek	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305005	06	020N	060E	Texota Utah Fed L 1	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305006	06	020N	060E	Chalk Creek Gov 2	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305007	06	020N	060E	Chalk Creek Gov 3	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305008	06	020N	060E	Chalk Creek Gov 1	99990 to 14039	2/10/2004	Chalk Creek Gas Storag
N7560	Questar Pipeline Co	4304305009	06	020N	060E	Chalk Creek Gov 5	99990 to 14039	2/10/2004	Chalk Creek Gas Storage
N7560	Questar Pipeline Co	4304305018	06	020N	060E	Chalk Creek Gov 6	99990 to 14039	2/10/2004	Chalk Creek Gas Storage

Note to file: These entity numbers were changed to compliment the operator correction from 3/7/98